

ABSTRACT

An optical pickup device having a lead frame package and a detecting unit is provided. The lead frame package includes a sub-mount, a light source mounted on the sub-mount and emitting a beam, a reflecting element disposed to direct the beam toward an optical medium, a transmission-type diffraction gating element dividing the beam into three beams, and a hologram optical element diffracting the beams reflected from the optical medium, the lead frame package having an opening defined by the hologram optical element, the bottom of the lead frame package, and side walls of the lead frame package. The detecting unit having a substrate and a photo diode mounted on the substrate is disposed within the opening of the lead frame package. After the detecting unit is adjusted with respect to the lead frame package to a position to accurately receive the reflected beams from the hologram optical element, the detecting unit is fixed to the lead frame package.